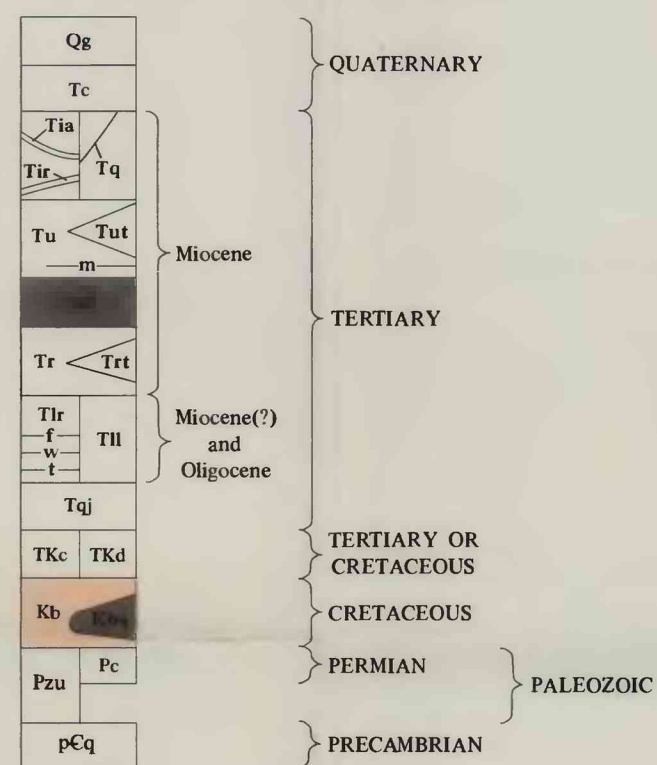


Base from U.S. Geological Survey, Chiricahua Peak and Portal, 1:62 500, 1958

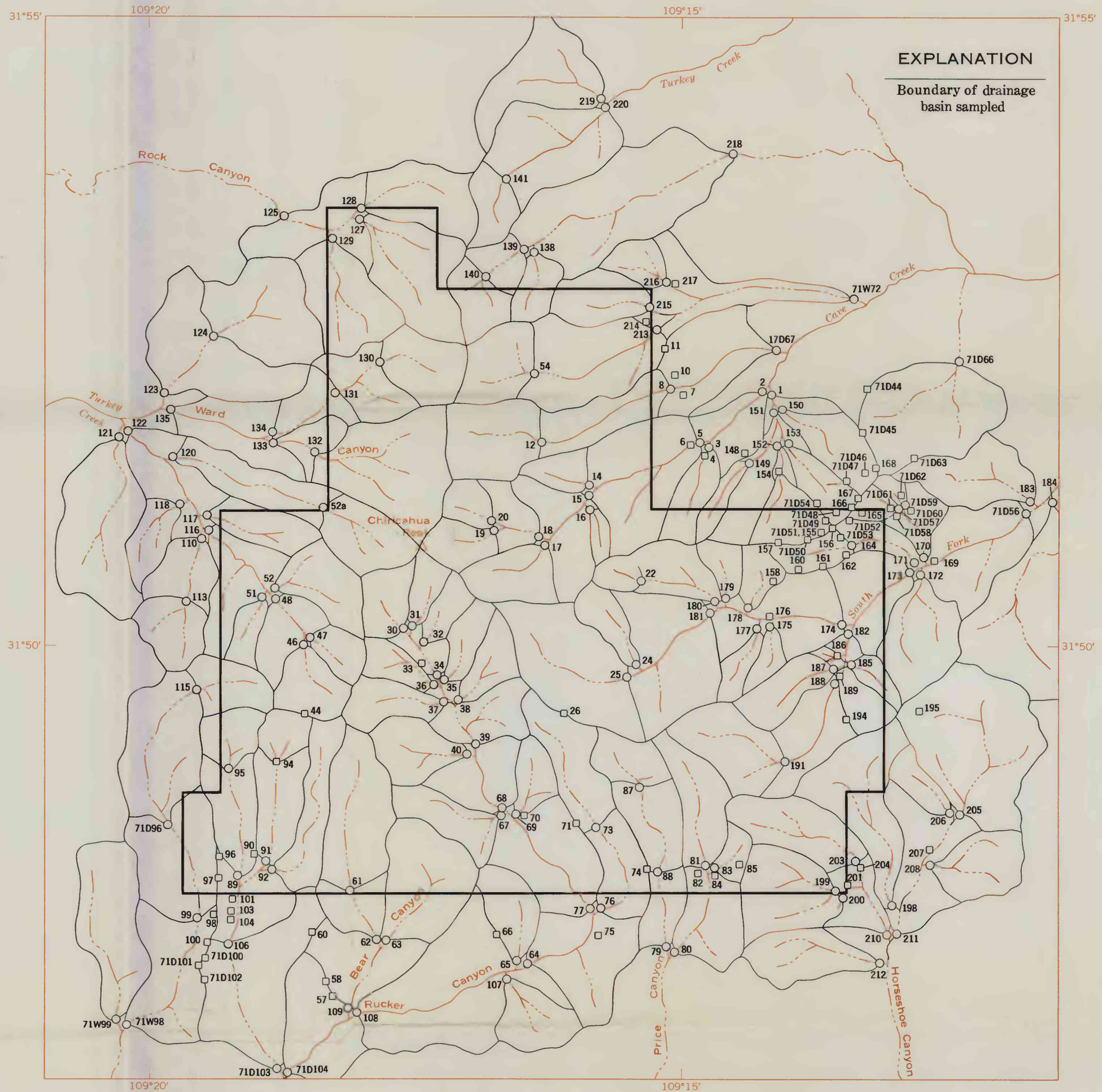
Geology by Harold Drewes, 1971. Aeromagnetic survey compiled under supervision of G. P. Eaton, 1971; flown in 1970 at barometric elevation of 10,000 feet; flight-line spacing 1 mile

CORRELATION OF MAP UNITS

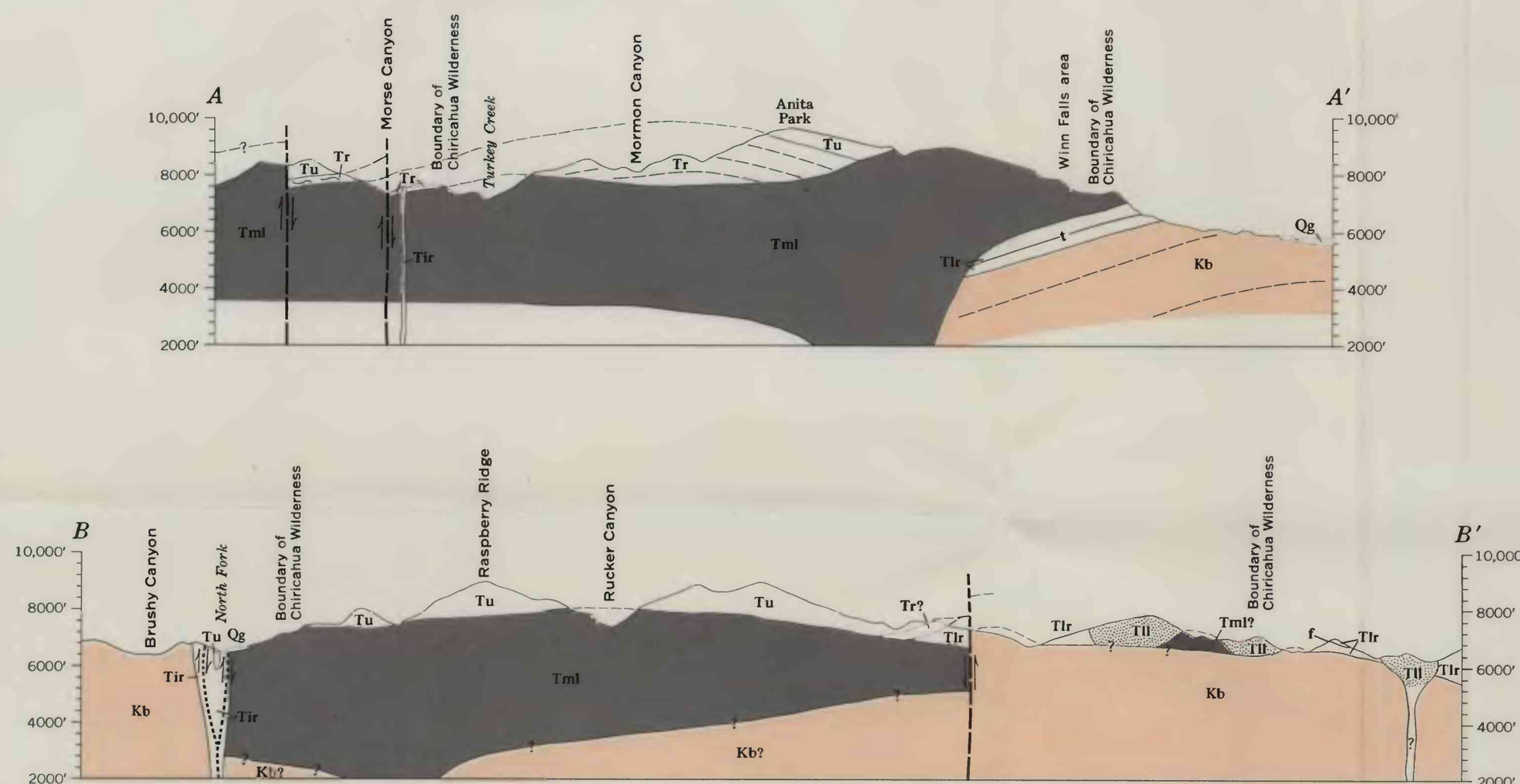


DESCRIPTION OF MAP UNITS

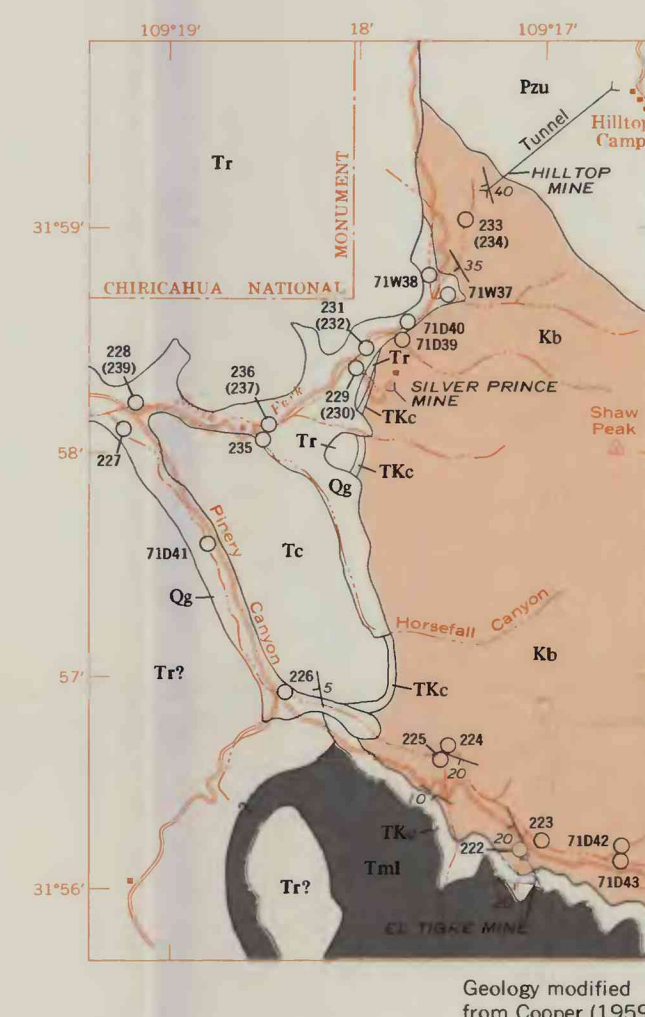
- Qg** GRAVEL (QUATERNARY) - Alluvial terrace deposits. Includes sand in the upper Pinery Canyon area and in the Paradise-Galeyville area
- Tc** CONGLOMERATE (TERTIARY)
- Dikes (MIOCENE)** - Showing dip
- Intrusive andesite porphyry**
- Intrusive rhyolite** - Includes porphyritic and nonporphyritic body 2 miles north-west of Turkey Creek Ranger Station that is dated by the potassium-argon method as 24.8 m.y. (Marjaniemi, 1969)
- QUARTZ VEINS (MIOCENE)** - Showing dip
- UPPER RHYOLITE (MIOCENE):**
- Rhyolite lava** - Sparsely porphyritic, massive to faintly flow laminated; includes some vitrophyre and small bodies of tuffaceous rock
- Base of a massive lava flow** - East of the upper part of Rucker Canyon
- Tuffaceous rock** - Large bodies
- MONZONITE AND LATITE (MIOCENE)** - Intrusive and extrusive rocks. Mainly monzonitic in core of the western body in the wilderness and porphyritic latite elsewhere. In the upper Pinery Canyon area, include some rhyolite volcanic rocks
- RHYOLITE CANYON FORMATION (MIOCENE):**
- Porphyritic rhyolite welded tuff** - Dated as 24.2-25.0 m.y. by 3 potassium-argon determinations (Marjaniemi, 1969)
- Tuff and tuff breccia**
- LOWER RHYOLITE (MIOCENE? AND OLIGOCENE):**
- Porphyritic rhyolite tuff, welded tuff, and lava flows, and some dacitic lava flows** - Tuffaceous rhyolite dominant within the wilderness. Dated by potassium-argon method as 25.7 ± 0.8 m.y. (Marjaniemi, 1969)
- Base of rhyolite flows**
- Base of welded tuff**
- Base of tuffaceous beds**
- Flow-laminated rhyolite** - May include some intrusive rock and may include rock as young as the upper rhyolite (Tu)
- QUARTZ MONZONITE (TERTIARY)** - Jhus stock. 30.9 ± 1 m.y.
- DACITIC ROCKS (TERTIARY OR CRETACEOUS):**
- Conglomerate** - Contains much dacitic detritus
- Dacitic volcanic rocks** - Include some conglomerate in the Paradise-Galeyville area
- BISBEE FORMATION (LOWER CRETACEOUS):**
- Interbedded shale, siltstone, and sandstone** - Mostly olive brown to black; include some limestone and epistatic, extrusive, and dacitic volcanic rocks in upper part and some conglomerate near base of formation. May include some younger bedded rocks in the upper Pinery Canyon area and in the Paradise-Galeyville area
- Andesitic volcanic rocks** - May include some younger rocks
- Pc** CONCHA LIMESTONE (PERMIAN) - Cherty and fossiliferous limestone, locally intensively silicified
- Pzu** PALEOZOIC ROCKS UNDIFFERENTIATED - Sequence extends from Permian Concha Limestone to Cambrian Bolsa Quartzite. Rocks near Galeyville and Paradise are metamorphosed
- pCq** GRANODIORITE AND QUARTZ MONZONITE (PRECAMBRIAN)
- CONTACT** - Approximately located
- FAULT** - Dashed where inferred; dotted where concealed or intruded. Bar and ball on downthrow side
- STRIKE AND DIP OF BEDS**
- STRIKE AND DIP OF FOLIATION**
- ALTERED ROCK** - Area of widespread reddish-brown iron-stained rock
- PROSPECT** - Includes mines in the Paradise-Galeyville area
- ADIT**
- MAGNETIC CONTOURS** - Showing total intensity of earth's magnetic field in gammas relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Contour interval 20 gammas
- LOCATION OF MEASURED MAXIMUM OR MINIMUM INTENSITY WITHIN CLOSED HIGH OR CLOSED LOW**
- FLIGHTPATH** - Showing location and spacing of aeromagnetic data
- SAMPLE SITE** - Numbers of samples collected in 1970 are shortened; thus, full number of sample 26 is 70D26. On the map of the upper Pinery Canyon area, the number without parentheses is of the youngest alluvium, and the number in parentheses is of alluvium in low terrace deposits
- Sample of geochemically analyzed alluvium**
- Rock sample** - On sample-locality map only
- SAMPLE SITE OF RADIOMETRICALLY DATED ROCK** - On Paradise-Galeyville map only
- BOUNDARY OF CHIRICAHUA WILDERNESS**



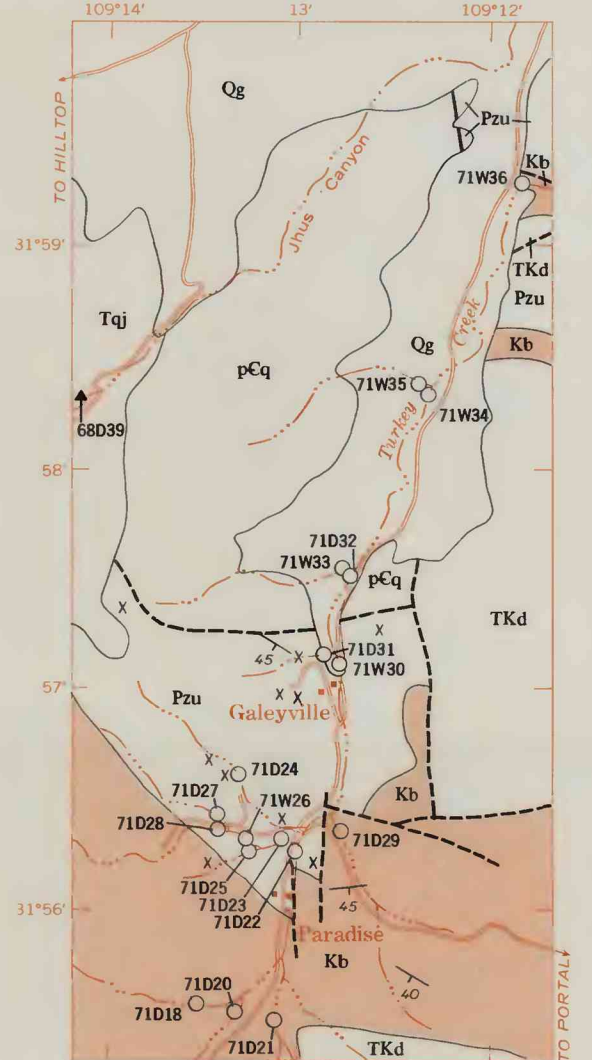
SAMPLE-LOCALITY MAP, CHIRICAHUA WILDERNESS AND VICINITY



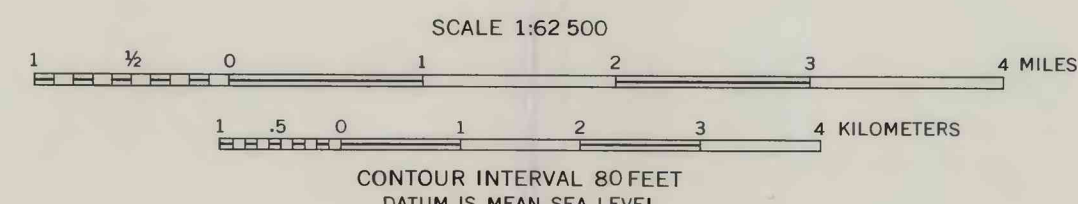
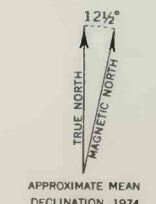
GEOLOGIC MAP OF THE CHIRICAHUA WILDERNESS AND VICINITY



GEOLOGIC MAP OF UPPER PINERY CANYON AREA



GEOLOGIC MAP OF THE PARADISE-GALEYVILLE AREA



MINERAL RESOURCES OF THE CHIRICAHUA WILDERNESS AREA, COCHISE COUNTY, ARIZONA